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SmartLog User's Manual

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Chapter 1. Before You Start

Welcome

Welcome to SmartLog Diabetes Management Software. This program is designed to provide pictorial views of your glucose levels to show trends and patterns from glucose test results downloaded from CareSens and other i-SENS glucose meters.
You can comprehensively manage your diabetes by recording information such as diet, exercise, medication, and insulin does.

About SmartLog

SmartLog is a Diabetes Management Software that helps patients with diabetes to track and monitor their blood glucose levels through graphs, statistics and other software tools using glucose monitor developed by i-SENS, Inc.

1.1 User's Manual Introduction

This manual provides quick and simple answers to questions you may have regarding the use of the software, and solutions to problems you may encounter during its use. SmartLog Diabetes Management Software allows diabetic patients to download their glucose measurement data to the program. i-SENS blood glucose meter and data cable are required to download the data. (Read 3.3 Download Data)
Please refer to the user manual of the meter before you use it.
SmartLog Diabetes Management Software helps healthcare professional and patients with diabetes to track and monitor their blood glucose levels and related data, through graphs and other software tools. SmartLog provides helpful information for patients to keep their glucose under control.

1.2 View User's Manual Guide

The User's Manual is designed as a PDF file. To view or print a file in PDF format, you will need Adobe® Acrobat® Reader 6.0 or higher version, a free application provided by Adobe® Systems. The PDF format makes it easy for the user to find the required content in an interactive fashion while using SmartLog. You may also choose to print the entire User Manual, or selected sections for future reference. Once the PDF file is opened, you can control the viewing and printing of the User Manual through the Adobe® Acrobat® Reader.

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1.3 System Requirements

- CPU: 300 MHz Intel Pentium II or higher
- RAM: 512 MB or higher
- Minimum free hard disk space: 200 MB
- Windows® XP Home, Professional (SP2 or above), Windows® Vista (32-bit/64-bit), Windows® 7 (32-bit/64-bit) or Windows® 8 (32-bit/64-bit)
- MAC OS X 10.7.0 or later
- USB port
- SmartLog USB cable or Mini-USB cable
- Mouse and Keyboard for data entry and menu selection
- Video monitor and adapter with at least 1024x768 pixel screen resolution and 256 colors
- Printer to print report
- Internet connection to send email

Note

In this manual, 'PC' stands for a computer operates on Microsoft Windows OS, and 'MAC' is another that operates on Apple Mac OS.

Description of Symbol

CE	This product fulfills the requirements for Directive 98/79/EC/ on in vitro diagnostic medical devices.
	Consult instruction for use
	Manufacturer
EC REP	Authorized representative

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Symbols used in the manual

	Important Information Indicates that there is a possibility of death, injury or a serious adverse event may occur to the user if the instructions provided are not followed with proper medical guidance of a physician.
	What you need to know Indicates that there is a possibility of injury to the user or damage to the device if the instructions provided are not followed without proper medical guidance.
	Note Indicates additional or background information that may be helpful to the user.

Important Information

Do not decide on your treatment method using the data provided by SmartLog alone. Any course of medical treatment should be pursued only after a diagnosis by a healthcare provider. Before a treatment method is selected, both the user and their healthcare provider should understand how the statistical data is made by SmartLog.

What you need to know

This SmartLog software saves health-related data on your computer. It is recommended to ensure that you have up-to-date security software on your computer.

Note

SmartLog works with i-SENS blood glucose monitoring systems except CareSens POP and CareSens N Mini.

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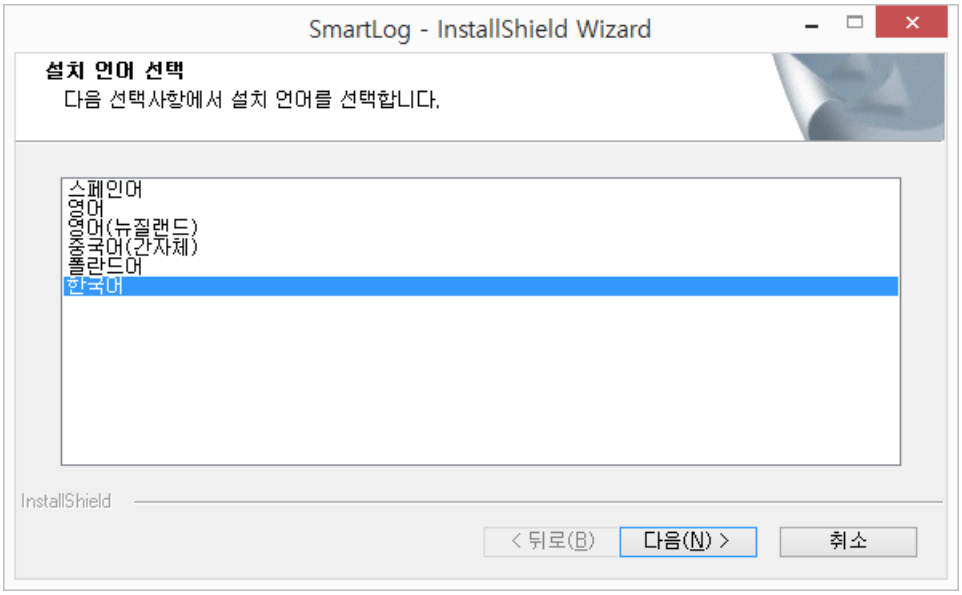
Chapter 2. Program Install & Uninstall

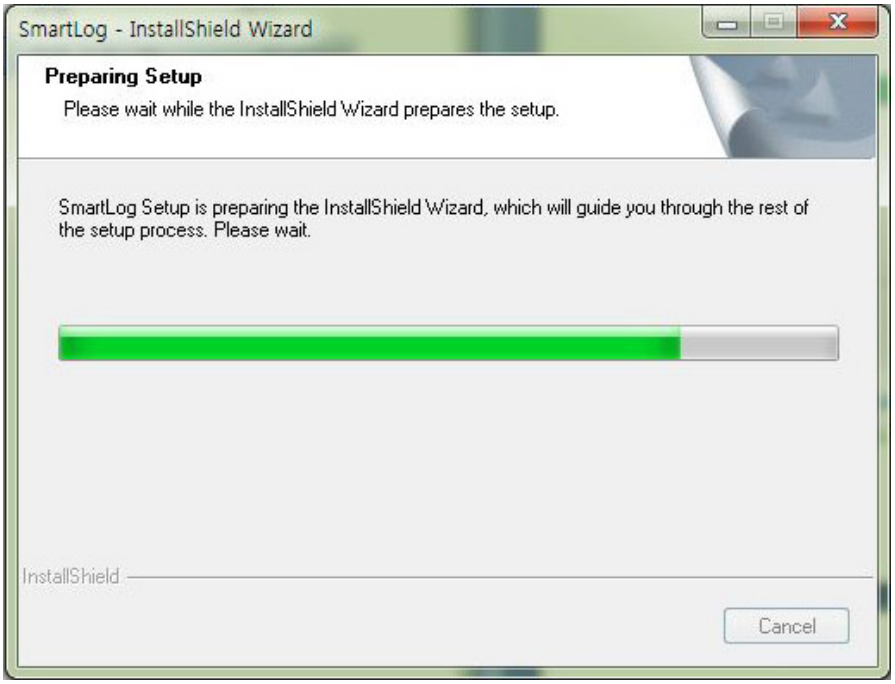
2.1 Install SmartLog

2.1.1 PC(Windows) Version

Double click the setup file (setup.exe), and then install screen will automatically show up as below.



Click the "Next" button to proceed with the preparing Setup.


SmartLog - InstallShield Wizard
Preparing Setup
Please wait while the InstallShield Wizard prepares the setup.
SmartLog Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
InstallShield
Cancel

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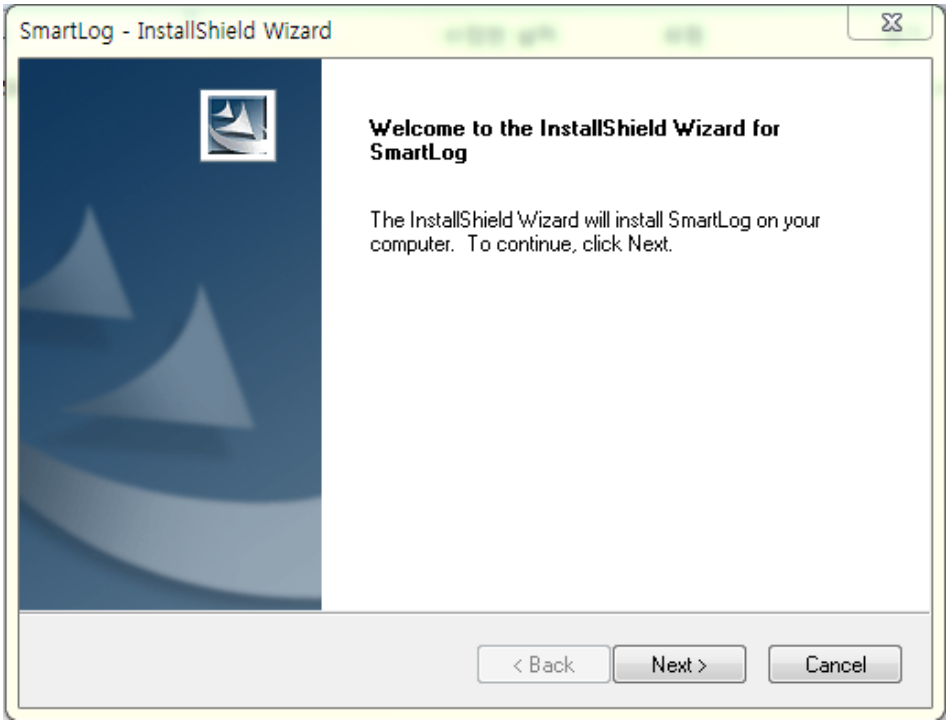
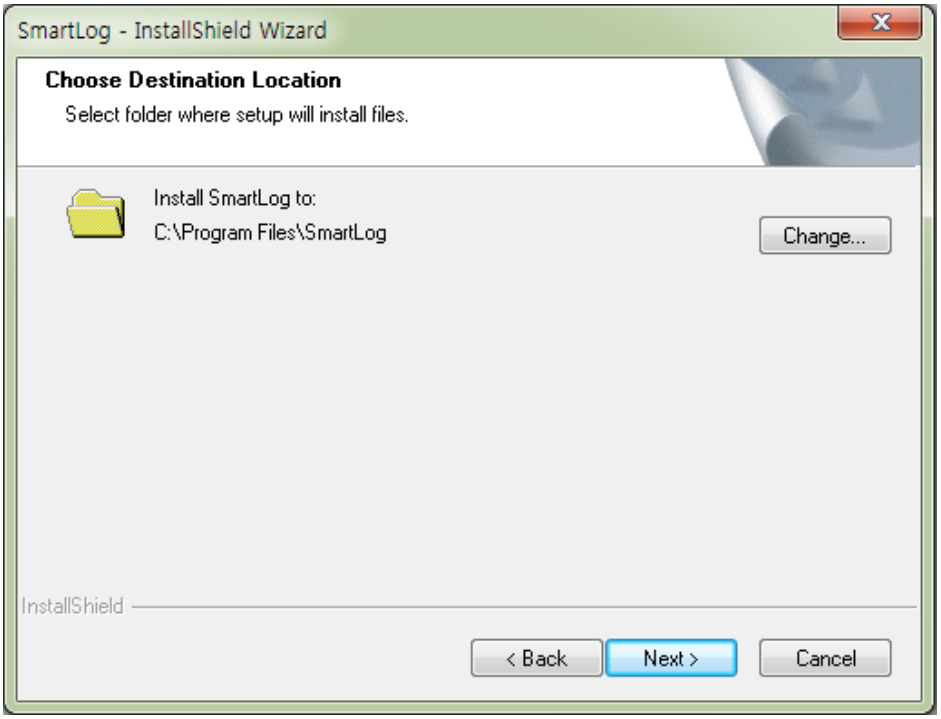

SmartLog - InstallShield Wizard
Welcome to the InstallShield Wizard for SmartLog
The InstallShield Wizard will install SmartLog on your computer. To continue, click Next.
< Back
Next >
Cancel

Click the "Next" button on the Install Shield Wizard to start the installation.



Make sure the target location of SmartLog to be installed, and then click the "Next" button.

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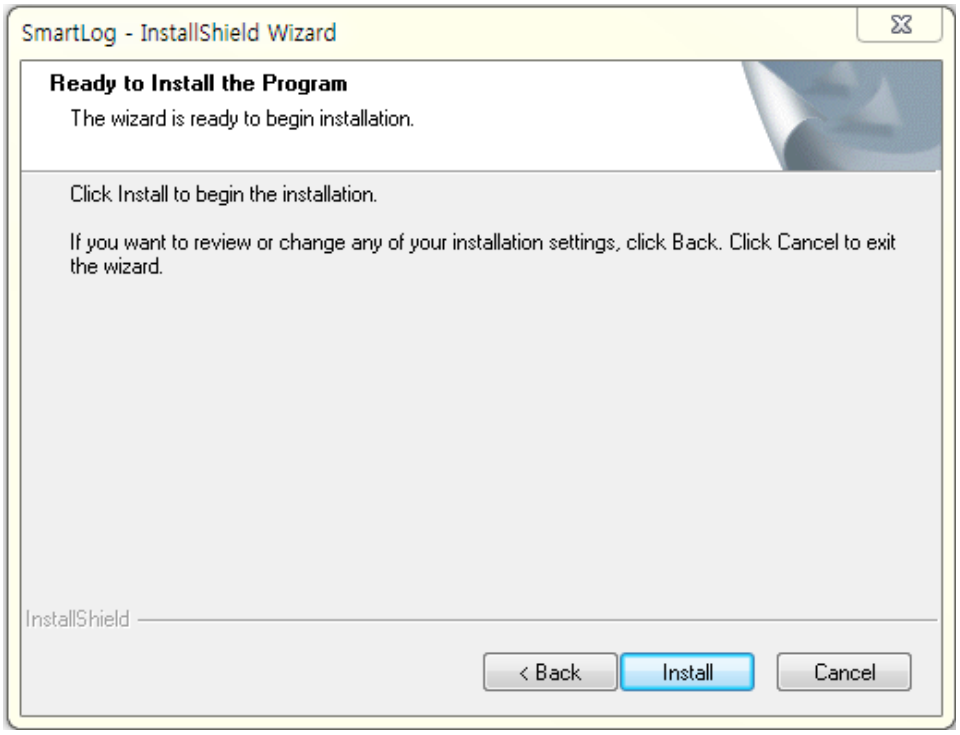
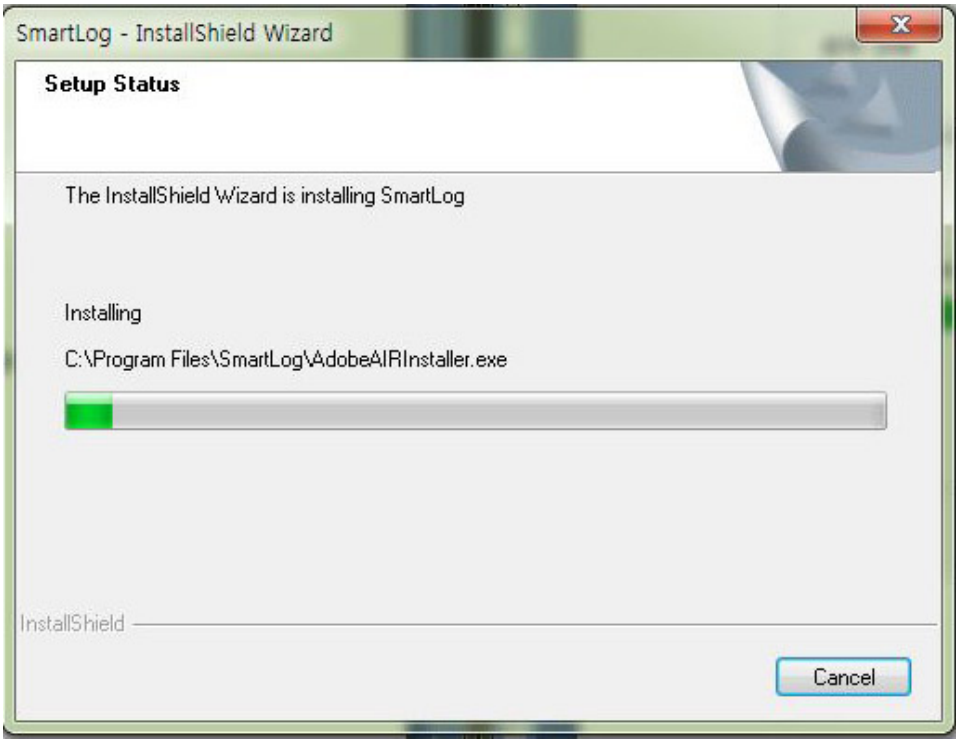

SmartLog - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Click the "Install" button to proceed.

And then the installation will progress as below.



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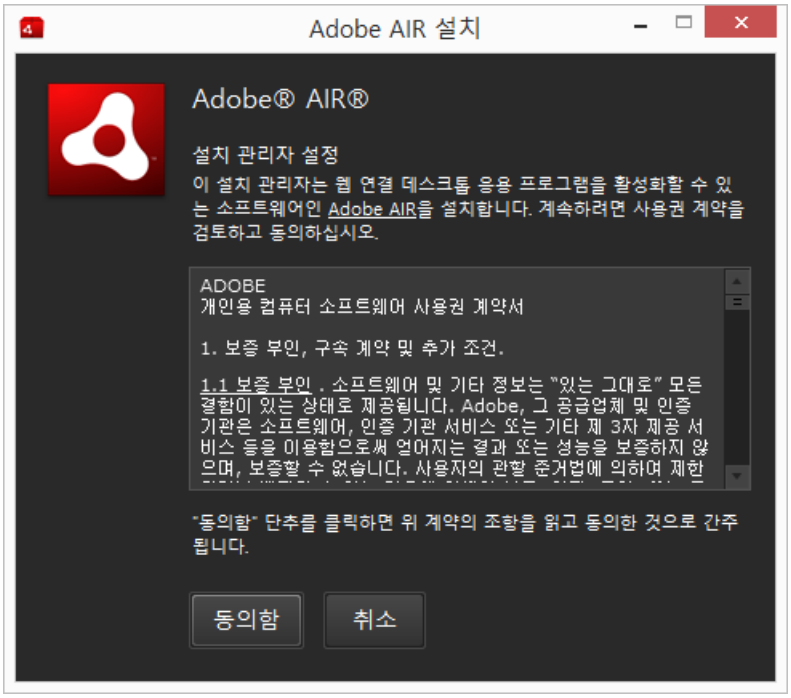

Click the “Agree” button to install Adobe AIR, essentially required to operate SmartLog.

Confirm the completion of Adobe AIR Setup as below.

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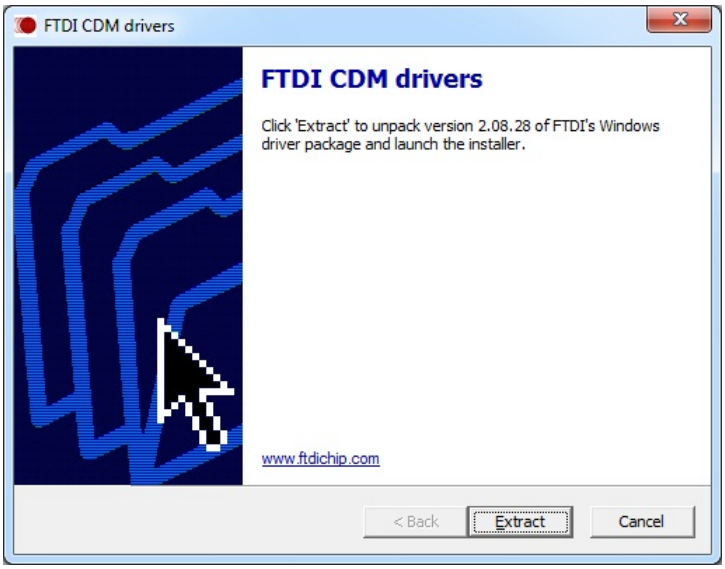
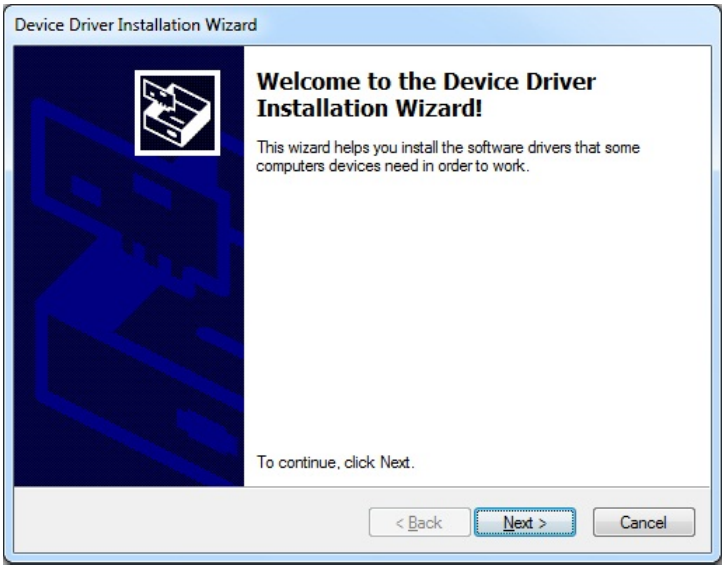
Once Adobe AIR installation is completed, and then FTDI CDM driver Setup will continue.



To install the cable driver, click the 'Extract' button and the following will be displayed.


Device Driver Installation Wizard
Welcome to the Device Driver Installation Wizard!
This wizard helps you install the software drivers that some computers devices need in order to work.
To continue, click Next.
< Back
Next >
Cancel

To continue to install, click the "Next" button.

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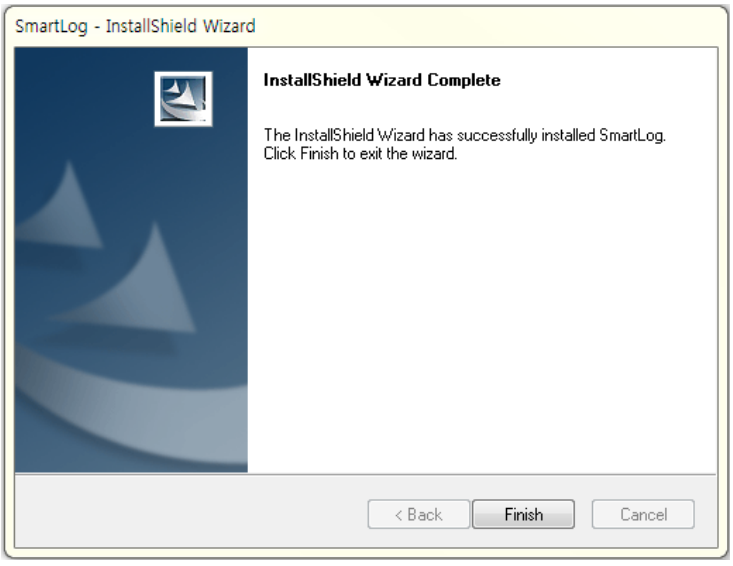
Installation will proceed and the following will be displayed.

Device Driver Installation Wizard
Completing the Device Driver Installation Wizard
The drivers were successfully installed on this computer.
You can now connect your device to this computer. If your device came with instructions, please read them first.
Driver Name
Status
FTDI CDM Driver Packa...
Ready to use
FTDI CDM Driver Packa...
Ready to use
< Back
Finish
Cancel

Click the 'Finish' button to complete installing.


SmartLog - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed SmartLog. Click Finish to exit the wizard.
< Back
Finish
Cancel

Click the "Complete" button to finish the SmartLog installation process.

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Note

After installing the driver, when SmartLog cable is initially connected to (the) USB port of the user's PC, the message shown below will appear in the bottom right corner of the screen.

When installed, the message will display as below.
Please wait to connect to SmartLog until this message appears.

Note

When SmartLog is completely installed on Windows ® XP, the following pop-up window will run. Uncheck the current user's "Protect my computer and data from unauthorized program activity" and click "OK" to proceed to SmartLog driver installation.

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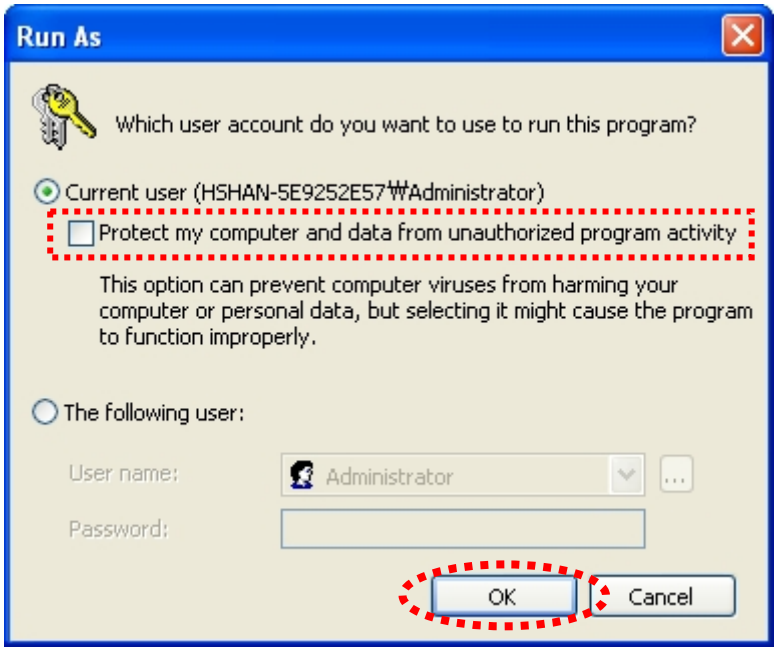
Run As
Which user account do you want to use to run this program?
Current user (HSHAN-5E9252E57₩Administrator)
Protect my computer and data from unauthorized program activity
This option can prevent computer viruses from harming your computer or personal data, but selecting it might cause the program to function improperly.
The following user:
User name:
Administrator
Password:
OK
Cancel

* Pop-up window will run twice. Uncheck and click "OK" twice to install the SmartLog driver.

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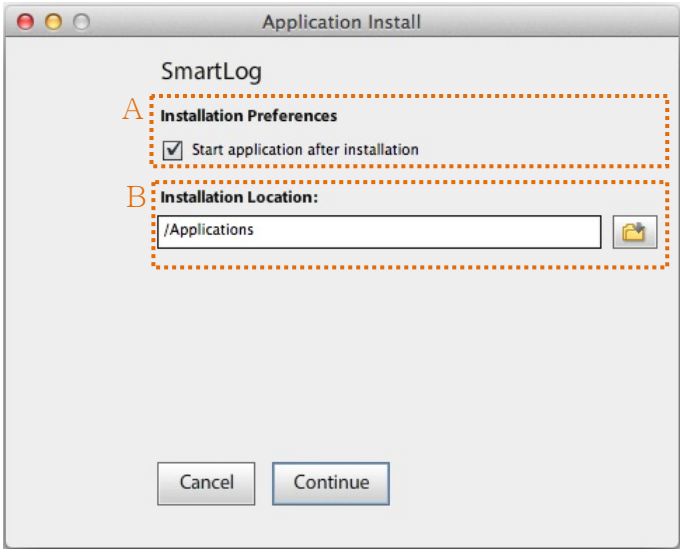
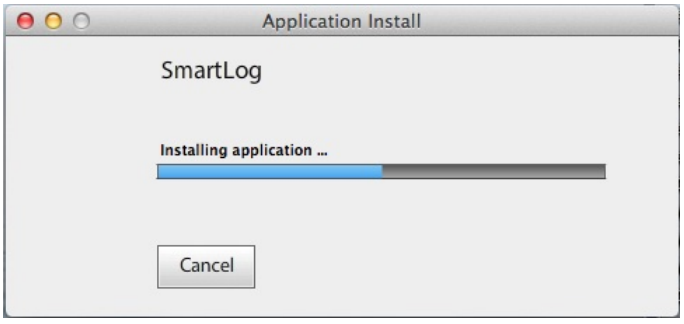
2.1.2 MAC Version

Double click the setup.dmg file to create Install SmartLog folder.
Double click the Install SmartLog in the Install SmartLog folder and the screen will appear as below.



Displayed Item	Description
A. Install Setting	After installing, you can set the setting to automatically run the program.
B. Install Location	Displays install location. To change the location, click the folder icon .

Click the "Continue" button to continue the installation.
Screen will appear as shown below and installation will continue.



Click 'Cancel' to cancel the installation.

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When installation is completed, the following will be displayed.

Enter the password and click the 'OK" button to complete the driver installation.

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2.2 Uninstall SmartLog

2.2.1 PC(Windows) Version

To uninstall SmartLog, run Control Panel and Add/Remove Program. From the Add/Remove Program list, click on SmartLog Uninstall.

Note

The methods to run Control Panel, and Add/Remove program are different depending on the Windows version. Please refer to the method of the appropriate Windows version in use.

2.2.2 MAC Version

Open the 'Application' menu, right click on the SmartLog icon, and click the "Move to Trash' menu.

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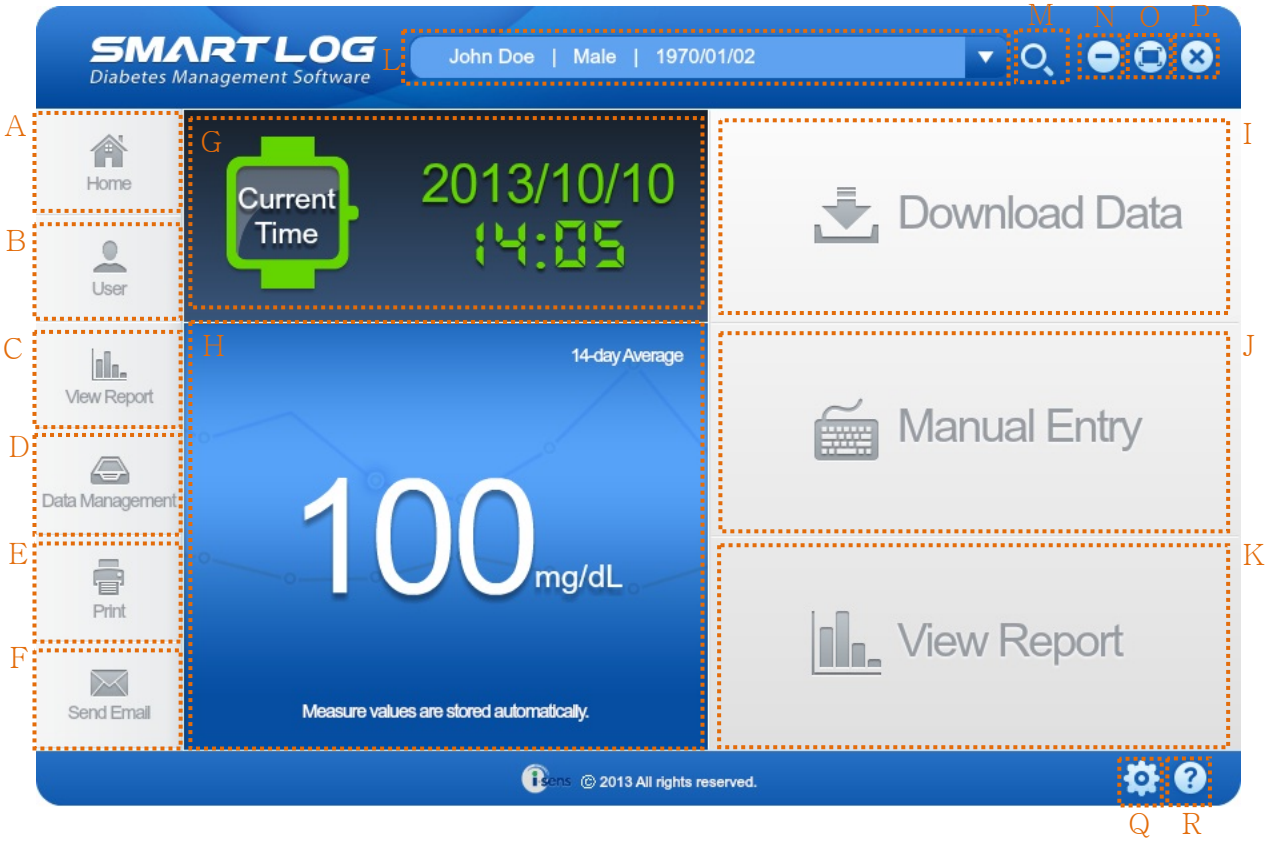
Chapter 3. SmartLog User's Manual

3.1 Run SmartLog

For the Windows version, double click the SmartLog shortcut icon from the screen.

For the MAC version, open the Application menu and double click the SmartLog icon.

After completion of installing SmartLog, The screen shown below will initially appear.



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Displayed Item	Description
A. Home	Move to home screen.
B. User	Register a new user or manage an existing user's information.
C. View Report	Utilize various reports, print, and send the reports via email.
D. Data Management	Export reports as pdf, jpg, xls, and csv file formats and import xls, csv files to SmartLog. (pdf and jpg files are not supported) You can also backup and restore Smartlog data.
E. Print Report	Print various reports.
F. Send Email	Send reports to a certain email.
G. Current Time	Shows current data and time.
H. Average 14 Days	Shows average value of the last 14 days.
I. Download Data	Download data from blood glucose meter
J. Manual Entry	Input data manually.
K. View Report	View various reports, print, and send them via email.
L. User List	Shows user list with name, gender, date of birth. Also able to choose another user by clicking on the down arrow next to the user information.
M. User Search	Search registered user.
N. Minimize	Minimize the program screen.

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O. Maximize	Maximize the program screen.
P. Exit	Exit the program.
Q. Setting	Edit date format, glucose measurement unit, and target setting. Also able to set the time of meter following SamrtLog time.
R. Help	View the User's Manual in pdf file format. (Acrobat Reader is required to read the help file)

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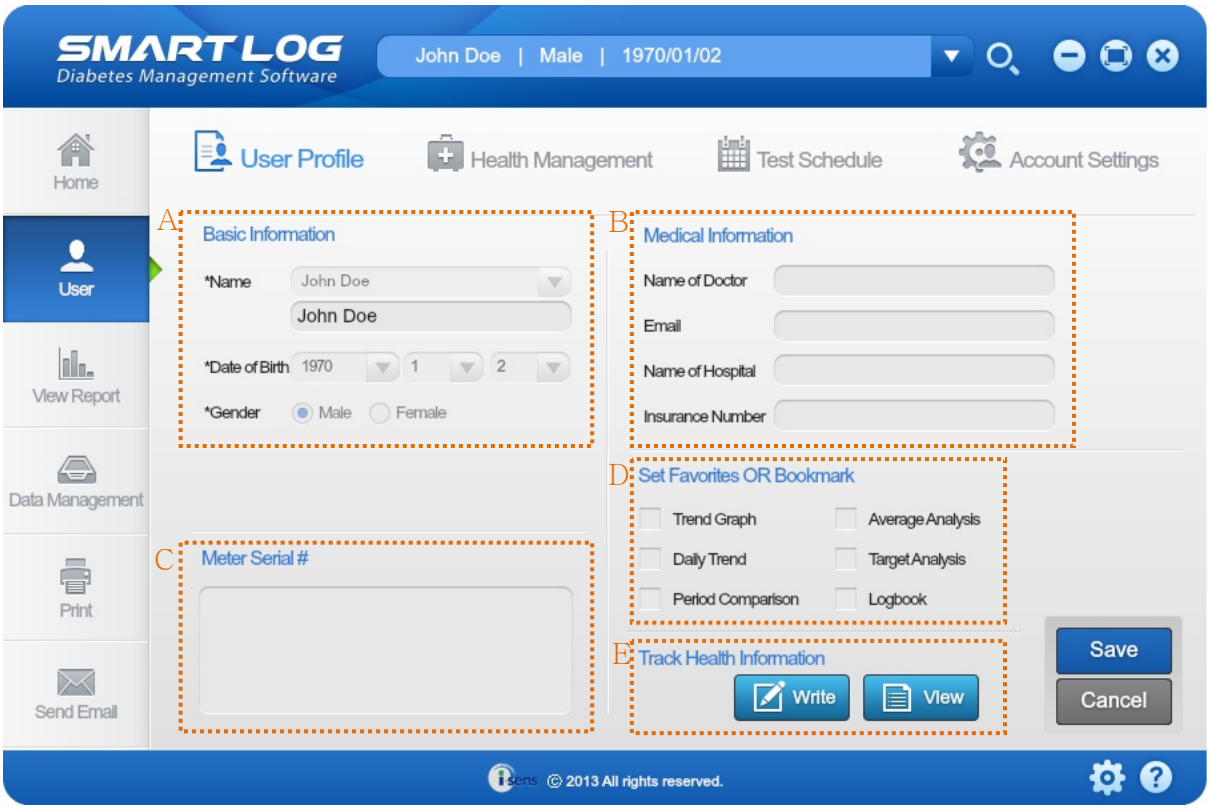
3.2 User

User menu has total 4 options including User Profile, Health Management, Test Schedule and Account Settings.

3.2.1 User Profile

In the User menu, User Profile is initially selected and the screen shown below will appear.



You can enter User information to register and edit information. You cannot continue without entering the Name, Date of Birth and Gender.

You can either register the user information after you download the data or from the Account Settings menu.

Displayed Item	Description
A. Basic Information (essential)	This information is required to register the new user and cannot be edited after it is saved.
B. Medical Information	You can enter/edit the Name of Doctor, E-mail, Name of Hospital and others.
C. Meter Serial Number	You can manage the serial numbers of your meters. User can register up to 5 different meters. Click the trash can icon next to the serial number to delete the registered serial number.

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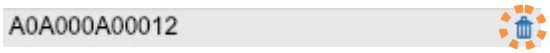
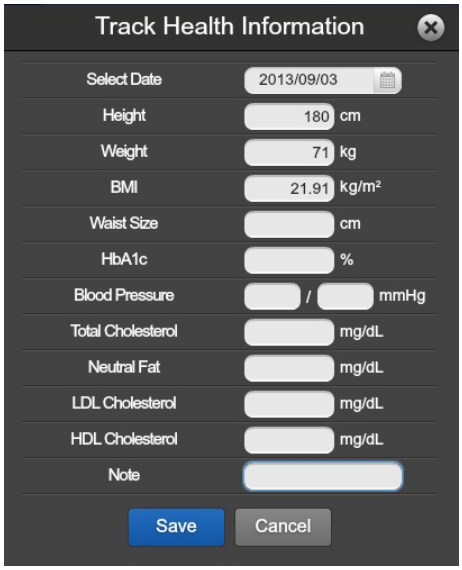
	
D. Set to Favorites	You can manage the print options for the reports.. The reports will be automatically printed if the reports are checked and attached to emails when sending emails.
E. Track Health Information	You can record, edit and save the health examination result. Click the 'Write' button to record the result.  To change the date, click the icon next to the date and choose the date. Enter the information and click the 'Save' button. Click the 'View' button to view and/or edit the saved information.

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	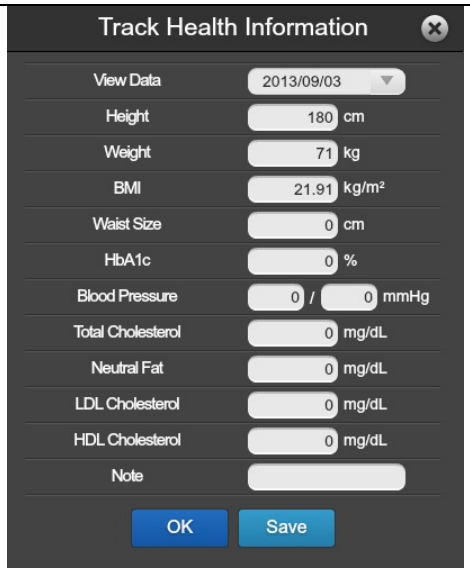 Use the same method as registering the Track Health Information to change the date. After editing, click the 'Save' button to save the information.

Click the 'Save' button to save the entered or edited information.

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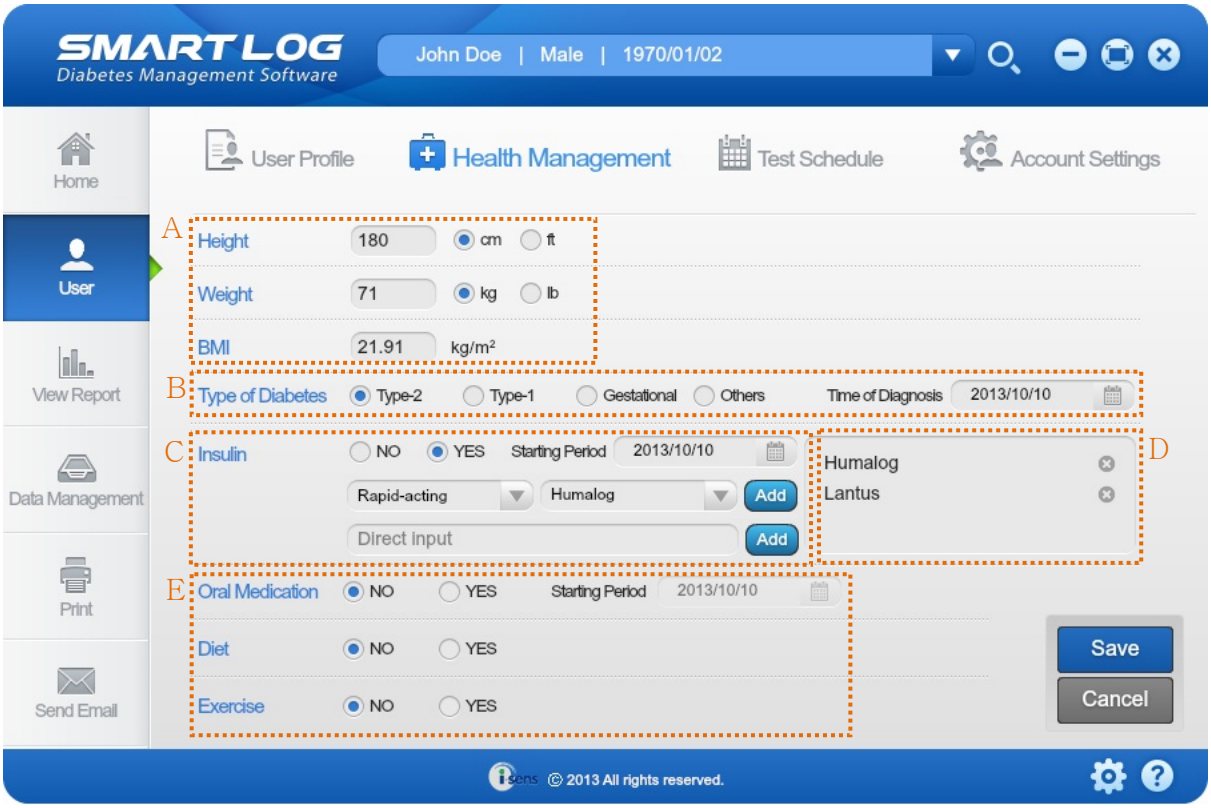
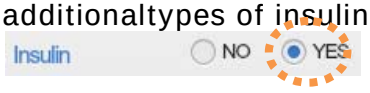
3.2.2 Health Management

Click 'Health Management' and the following screen will appear.



Displayed Item	Description
A. BMI	Height can be entered in cm or ft and Weight can be entered in kg or lb. Data will (be) automatically be converted if you change the unit. BMI will be automatically calculated when you enter your Height and Weight.
B. Diabetes Types	You can select the Diabetes Types and enter the Time of Diagnosis.
C. Add Insulin	Users can record additional types of insulin they are using. Check 'Yes' on the Insulin Usage in order to add additionaltypes of insulin.  Click the arrow from the Insulin List and choose the type of insulin. Then, click the arrow from the Medication List and choose the medication name in use.

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	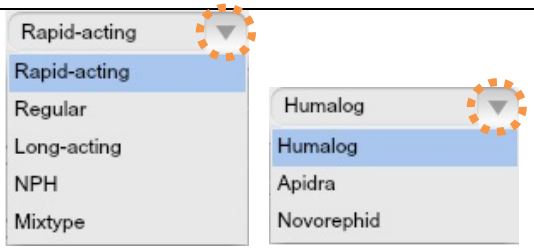 To add the selected Medication, click the first 'Add' button. If your insulin is not on the list, click the 'Manual Entry', write the name of the insulin and click the second 'Add' button.
D. Insulin List	Name of the insulin will be displayed. Name of the insulin is used when entering the insulin dosage.
E. Additional Information	You can select the Oral Medication, Diet and Exercise options.

Click the 'Save' button to save the entered or edited information.

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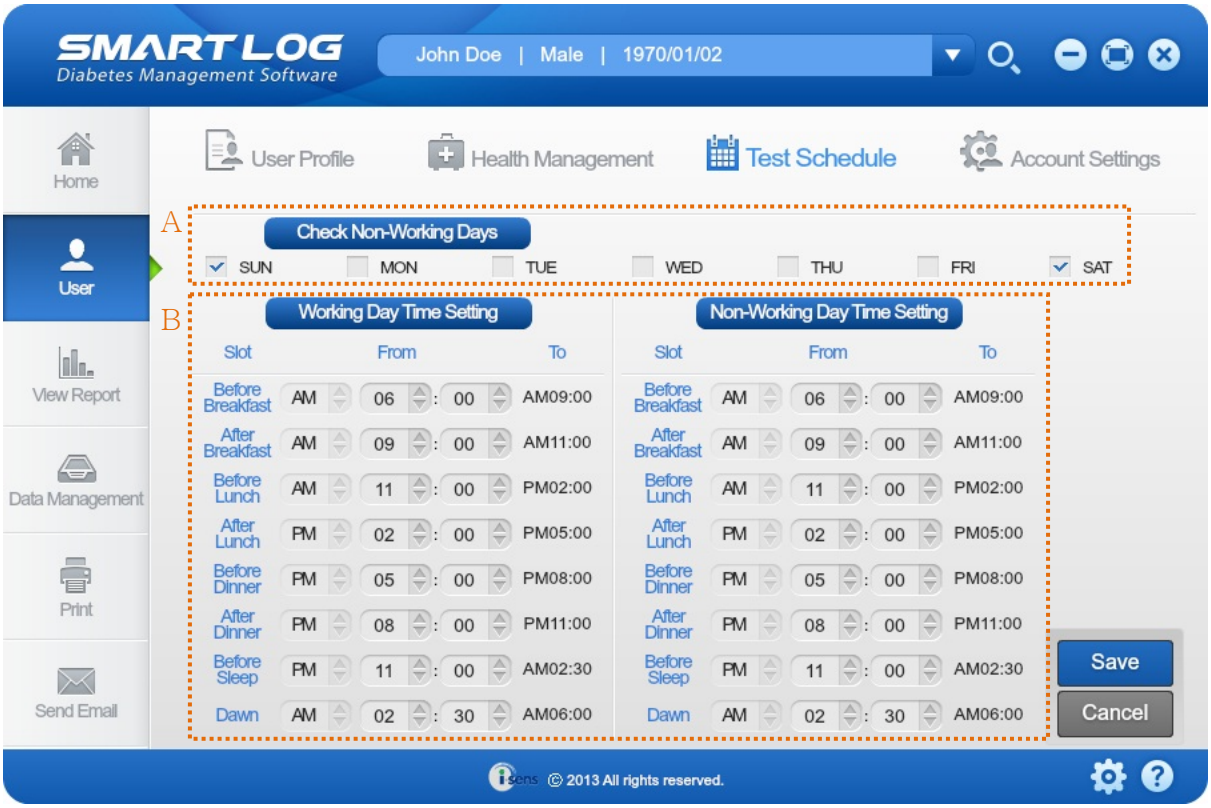
3.2.3 Test Schedule

Click the 'Test Schedule' (menu) and the following screen below will appear.



SmartLog manages the data using the meal and sleep time. Time schedule for meal and sleep time can be selected for both Working and Non-working days.

Displayed Items	Description
A. Select Non-Working Days	You can differentiate working days from nonworking days by checking the check box next to each date.
B. Working Day Time Setting/ Non-Working Day Time Setting	You can customize the time range for each meal and sleep duration. Click the Up and Down arrow button to customize the time ranges. (unit: ten minutes) If the start time is changed, the finish time will automatically change. The start and end time is set with the minimum of 10 minute intervals.

Click the 'Save' button to save the entered or edited information.

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Important Information

- Make sure to set the time in your meter to match the current time on your PC. If the time setting is wrong, the data can be erroneously analyzed.

What you need to know

- If any of the schedule doesn't match, the blood glucose data in SmartLog may be displayed in an inappropriate meal slot and cause a production of a report based on erroneous data information. If data appears in an inappropriate meal slot and falls out of the target range, you may misinterpret the information when tracking and organizing data. All data in the before-breakfast through bedtime meal slots will be displayed sequentially with the date of the before-breakfast start time. This includes data that may be recorded after midnight.

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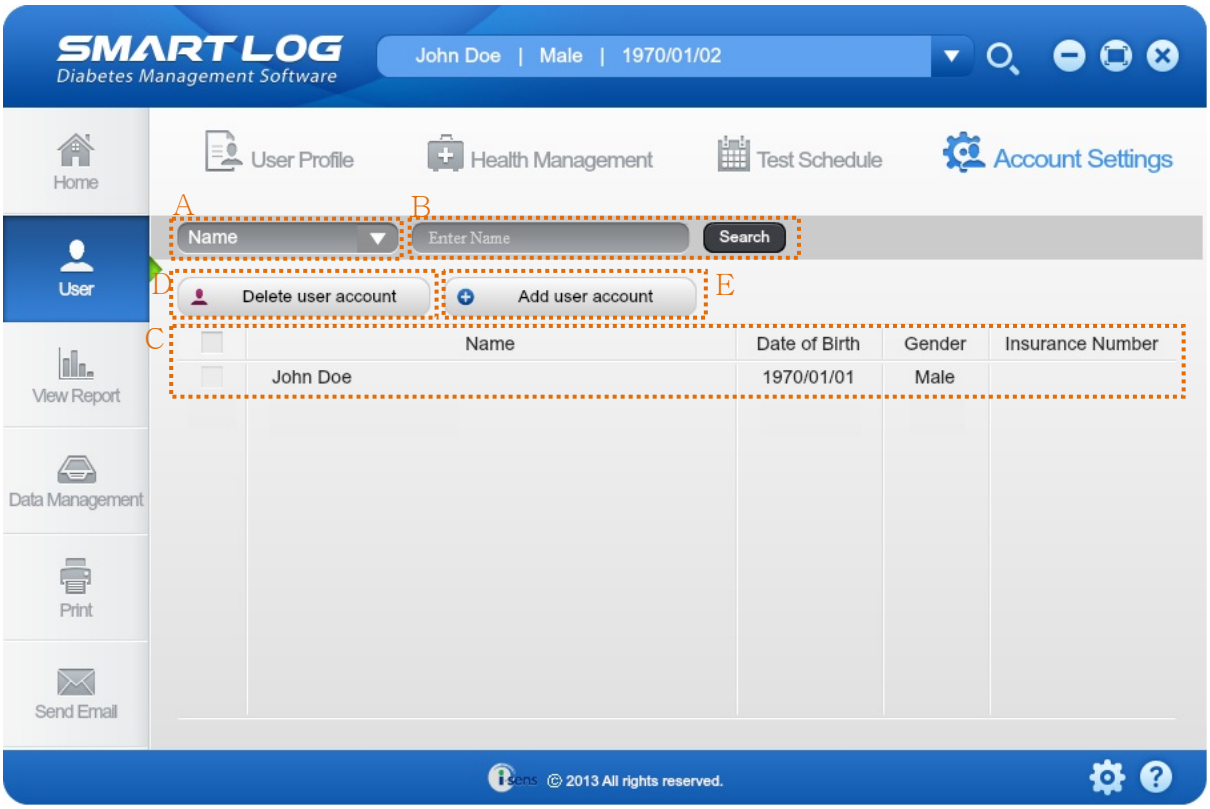
3.2.4 Account Settings

In ‘Account Setting’, you can register a new user and delete/search for a user.

Click the 'Account Setting' tab and the following screen below will appear.



Displayed Item	Description
A. Search Option	This is the current User Search Option. The standard search option is Name and you can change the search option to Date of Birth. To change the Search Option, Click the bottom arrow and choose the Search Option.
B. Entry Field	Enter information to search. If the Search Option is changed to Date of Birth, this field changes to Date Selection menu To start the search, click the 'Search' button.
C. User List	Registered user list will appear. When the Search tool is run only the searched user is displayed. Click the User List to see the User Profile screen.

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D. Remove User	You can remove the registered user information and data. Click the checkbox next to the user name and click the 'Remove User' button.
E. Add User	You can register a new user. Click the 'Add user' button to register information.

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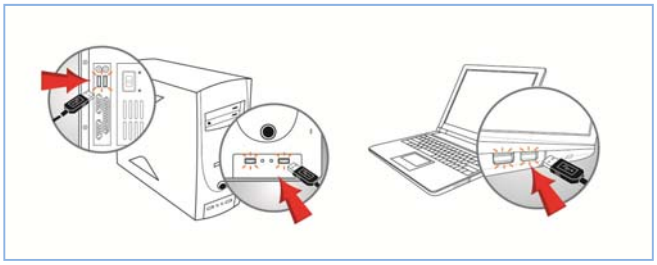
3.3 Download Data

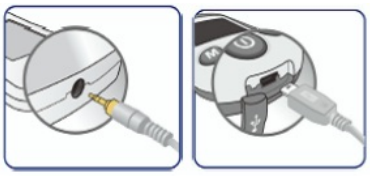
You can download the glucose data from the meter to PC or MAC.

What you need to know

You need to use the Data Cable to connect the i-SENS meter to PC or MAC. Depending on the user's meter, SmartLog cable may be required. Connect the end of the cable to the (A) USB port of PC or MAC and the other end of the cable to (B) the meter's communication port.

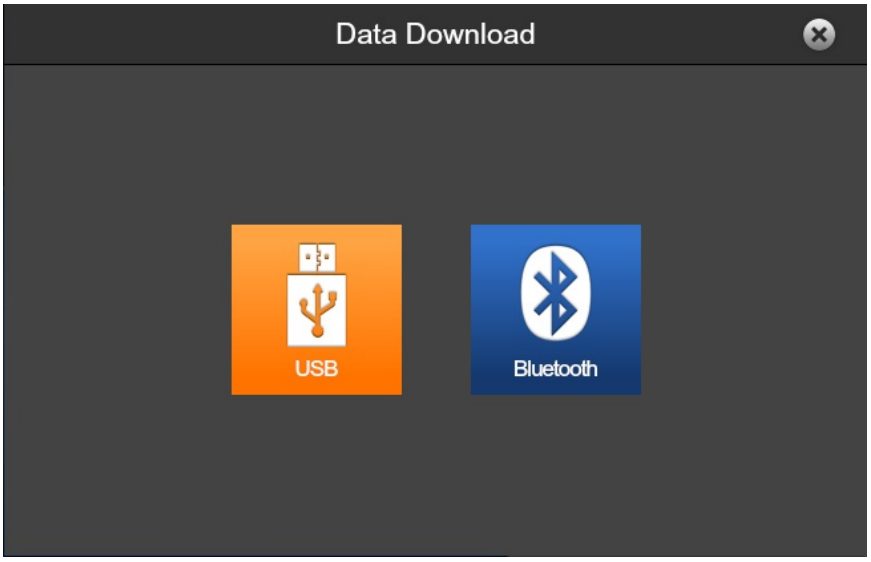


A. Connect to USB port



B. Connect to meter's communication port

Click 'Download Data' and the following screen below will appear.



Connect the meter to PC or MAC with the USB cable and turn on the meter.

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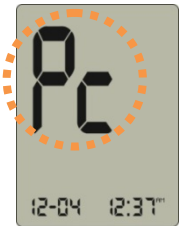
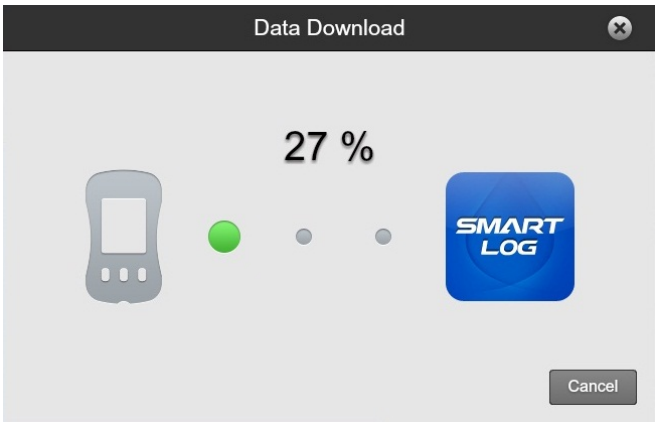
Click the 'USB' button when the meter shows 'Pc' on the screen.



Important Information

You cannot test or use the memory function of the meter while it is connected to PC or MAC. Do not test the meter while the meter is connected to PC or MAC.

When the meter is successfully connected, Download Data will start. Download Data Screen will show the progress from 0~100% as shown below.



Note

When the meter is not connected to PC or MAC, the connected meter will not turn on, or 'Pc' is not displayed while the power is on, the following screen will appear as shown below.

If this screen is displayed, Click the "OK' button and close the window. Reconnect the meter, turn on the meter, and Download Data after 'Pc' is displayed.

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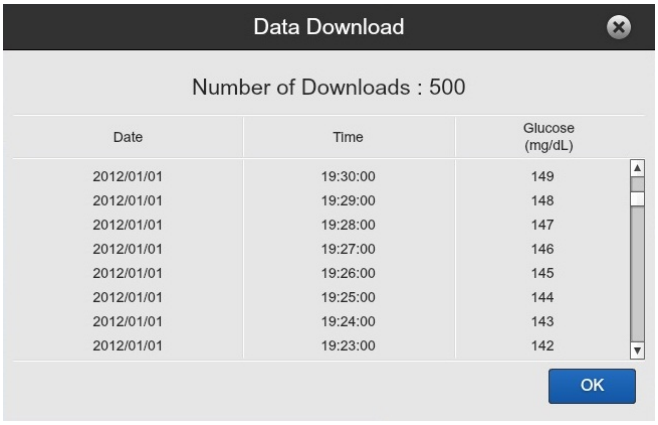
What you need to know

While you are downloading the meter data, do not remove the SmartLog USB cable from your PC or your meter.

When the progress shows 100%, the screen will show the number of downloads and the list of the data.

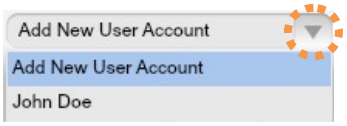


To end the Download Data, Click the 'OK' button.

If the meter is already registered, progress on to View Reports.
If the meter is not registered yet, the following screen will appear as shown below.

To register a new user, Click the 'OK' button.
Please refer to 3.2.1 User Profile on how to register a new user.

To add a serial number of the meter to an already registered user, click the arrow button next to 'Add New User' and select the user name.



What you need to know

If a new user is not registered or serial number of the meter is not added, the downloaded data will not be saved.

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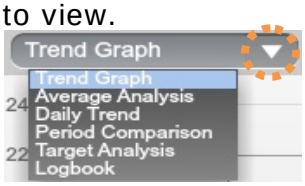
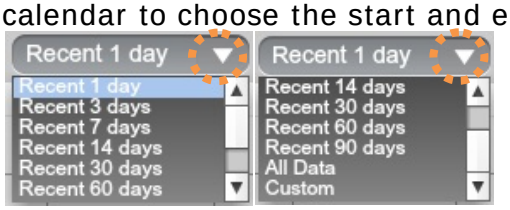
3.4 View Reports

Click “View Reports” and View Reports screen will appear.
Click 'View Reports' and the following screen below will appear.

While viewing the current report, different type of reports can be viewed. You can also view the same report on a different range of days and you may print and send the reports by email.

Displayed Item	Description
A. Type of Reports	It displays the selected type of Reports. Click the bottom arrow button and choose the type of a different Report to view. 
B. Range of Days	It displays the selected Day ranges. Click the bottom arrow button from the list and select the Day Ranges or set it to Select Ranges to customize. Click the bottom arrow button to change the days. It will show the calendar to choose the start and end day.  (Choose the Day Ranges from the list) (Select Ranges) Click the 'Apply' button to view the reports with the modifications.
C. Send Email	You can send the report shown on the screen via email.
D. Print Report	You can print the report shown on the screen.

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3.4.1 Trend Graph

Trend Graph displays blood glucose test results for a selected time ranges. This report allows you to easily track changes in blood glucose data on a daily basis.

Blood glucose data are shown as dots on an X-Y graph. Each data is connected to the next with a solid line.
Glucose data will appear in chronological order, from oldest to (the) most recent. The X-axis represents the date and time of the measurement, and the Y-axis represents the actual glucose level.

Displayed Item	Description
A. Target Value Range	Target Value range is shown in light green region from the graph.
B. Detailed Information	Move your cursor on each dots to show the corresponding details including Date, Time, Glucose Data, Time Ranges, and etc.

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3.4.2 Average Analysis

The Average Analysis shows glucose averages by meal slots and day of the week. This analysis allows you to monitor how glucose data are influenced by meals and by day.

Average Analysis report is showing in two bar graphs.

Displayed Item	Description
A. Pre/Post Meal Average Values	It will show the average values by hours. The X-axis represents the meal and sleep time, while the Y-axis represents the average values. Average values in each Pre/Post Meal and Before/After Sleep are shown in the bar graph.
B. Daily Average Values	It will show the Daily Average Values. The X-axis represents the day while the Y-axis represents the Average Values.
C. Detailed Information	Move your cursor on the tip of each bar graphs to show the corresponding details including Average Values, Time Ranges, and etc.

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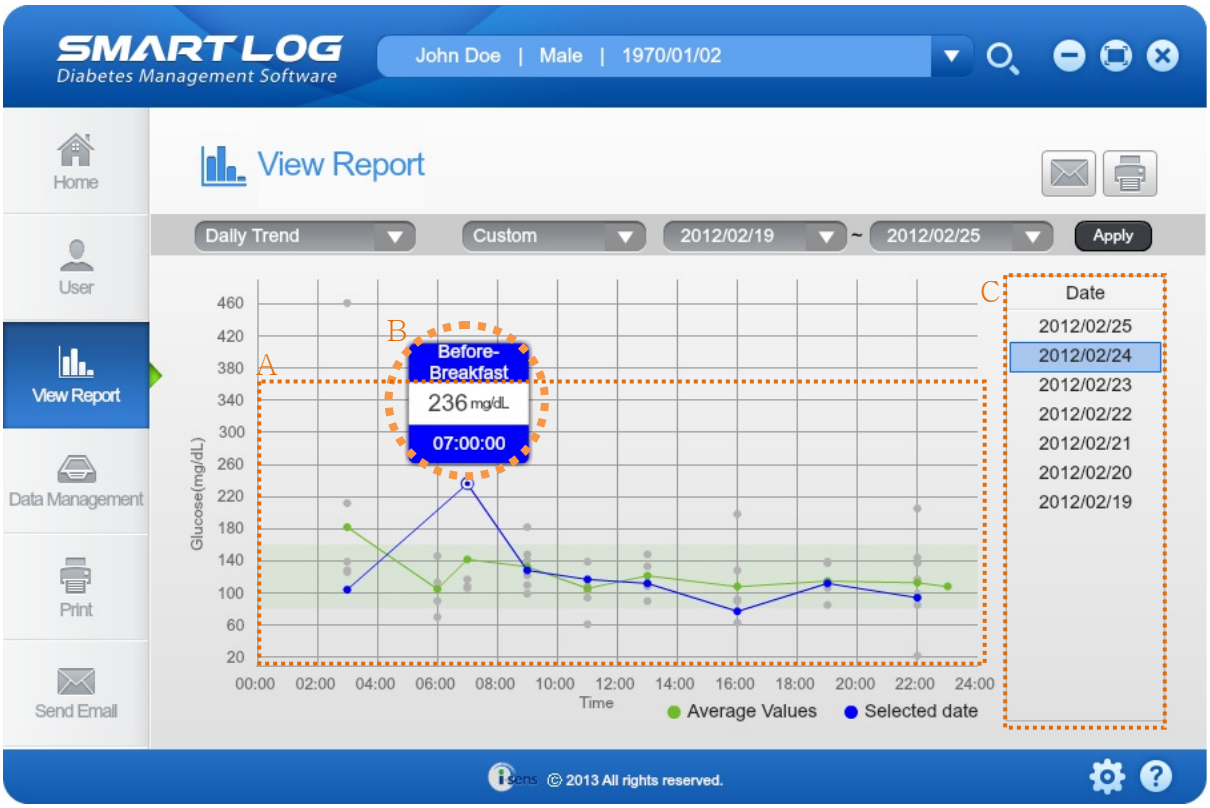
3.4.3 Daily Trend Graph

The Daily Trend Graph will show the glucose values in 24 hours period. This report allows you to easily track changes in blood glucose data on an hourly basis.



All the glucose measurement values are shown as dots in the X-Y graph. The X-axis shows the measurement time and the Y-axis shows the actual glucose measurement value.

Displayed Item	Description
A. Target Value	Target Value range is shown in light green region from the graph.
B. Detailed Information	Move your cursor on each dots to show the corresponding details including Time, Glucose Values, Time Ranges and etc.
C. Select Date	When you select a date, the dots will connect by lines and the colors of the dots and lines will change. Click the desired date to choose a specific date.

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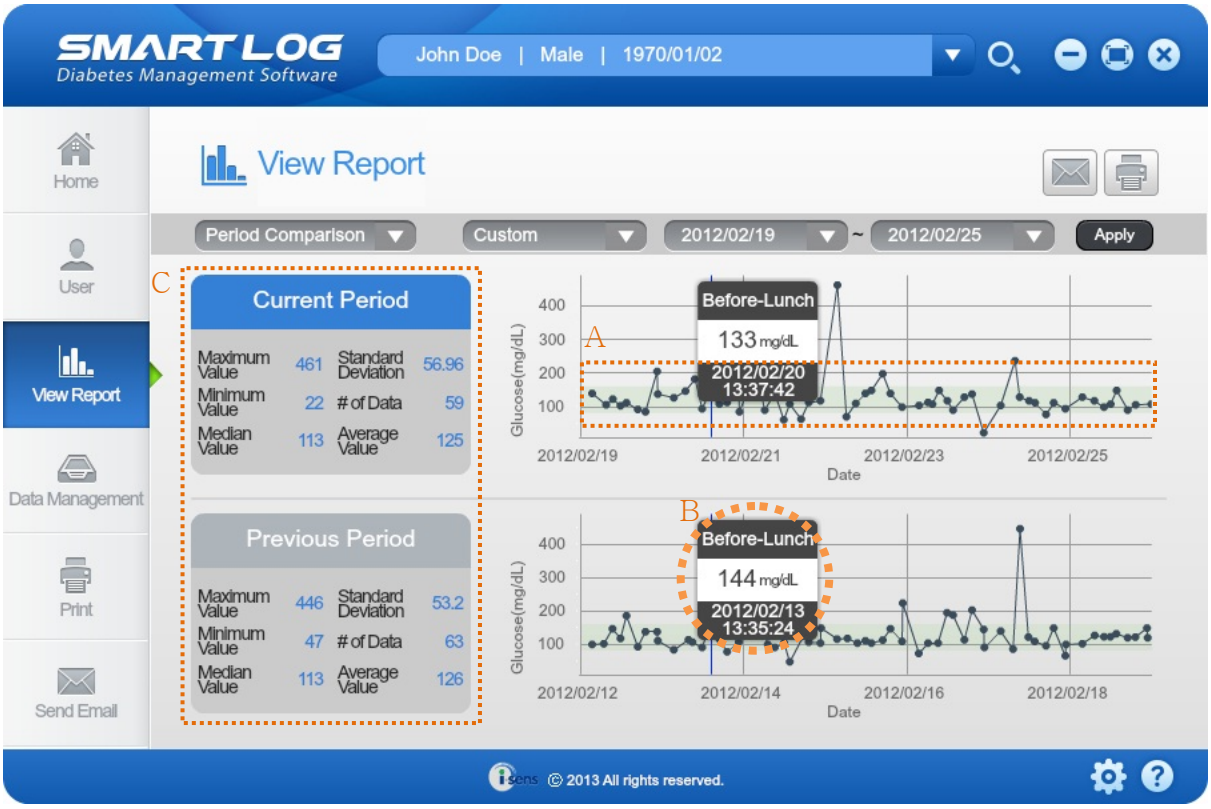
3.4.4 Period Comparison Graph



The Period Comparison Graph allows you to compare glucose value trends between a selected date period and a previous date period.
Current blood glucose data are shown as dots on the upper part of an X-Y graph while previous date period is shown in the bottom, each piece of data is connected to the next with a solid line.
Glucose data will appear in chronological order, from oldest to most recent. The X-axis represents the date of the data and the Y-axis represents the glucose level.

Displayed Item	Description
A. Target Value	Target Value range is shown in light green region from the graph.
B. Detailed Information	Move your cursor on each dots to show the corresponding details including Dates, Time, Glucose Values, Time Ranges and etc.
C. Statistics	It will show the Highest, Lowest, Median, Standard Deviation, Frequency of Measurements and Average Values.

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3.4.5 Target Analysis

Target Analysis Report displays the percentage of glucose data above and below each pre-and post-meal target range.

Target Analysis Report displays total of 10 different pie charts. It uses applicable pre- and post-meal and night/bedtime target ranges to display an overall target range. Pie chart will show the percentage breakdowns using glucose data as well as the frequencies of measurements for all meals and sleep time.

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3.4.6 Logbook

3.4.6.1 View Glucose Record

View Glucose Record Report shows daily glucose data by the time ranges. Glucose values displays in a sequential list distinguished by meal/sleep time ranges.

C

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C

Displayed Item	Description
A. Target Value	Control Solution values are shown in gray, Hyper readings in red, Hypo readings in blue, and non-working days in orange. Manual Entry values will show the Manual Entry icon on the right, and Manually entered memo will show the Memo icon on the left.
B. Manual Entry	You can instantly use the Manual Entry.
C. Detailed Information	Click on each value to edit or delete information. However Date, Time, and Glucose Values downloaded from the meter can NOT be edited or deleted.

3.4.6.2 Glucose Level Statistics

SMART LOG
Diabetes Management Software
John Doe | Male | 1970/01/02
Home
User
View Report
Data Management
Print
Send Email
View Report
Logbook
Custom
2012/02/19
~
2012/02/25
Apply
View Glucose Record
Glucose Statistics
Glucose Unit : mg/dL
Slot | Before Breakfast | After Breakfast | Before Lunch | After Lunch | Before Dinner | After Dinner | Before Sleep | Dawn
# of Data | 8 | 7 | 14 | 7 | 7 | 8 | 1 | 7
Average | 123 | 133 | 114 | 108 | 115 | 113 | 108 | 182
Maximum Value | 236 | 182 | 148 | 198 | 139 | 205 | 108 | 461
Minimum Value | 70 | 99 | 61 | 63 | 85 | 22 | 108 | 104
Hyperglycemia count | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1
Hypoglycemia count | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0
Standard Deviation | 47.23 | 25.37 | 22.83 | 41.52 | 17.15 | 49.55 | 0 | 118.81
Median Value | 111 | 128 | 112 | 92 | 113 | 108 | 108 | 128
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Glucose Level Statistics will display statistical data including Number of Readings, Average, Highest, Lowest, Number of Hyper/Hypo Readings, Standard Deviation, Median in each meal/sleep time ranges. Manual Entry menu can be used here also.

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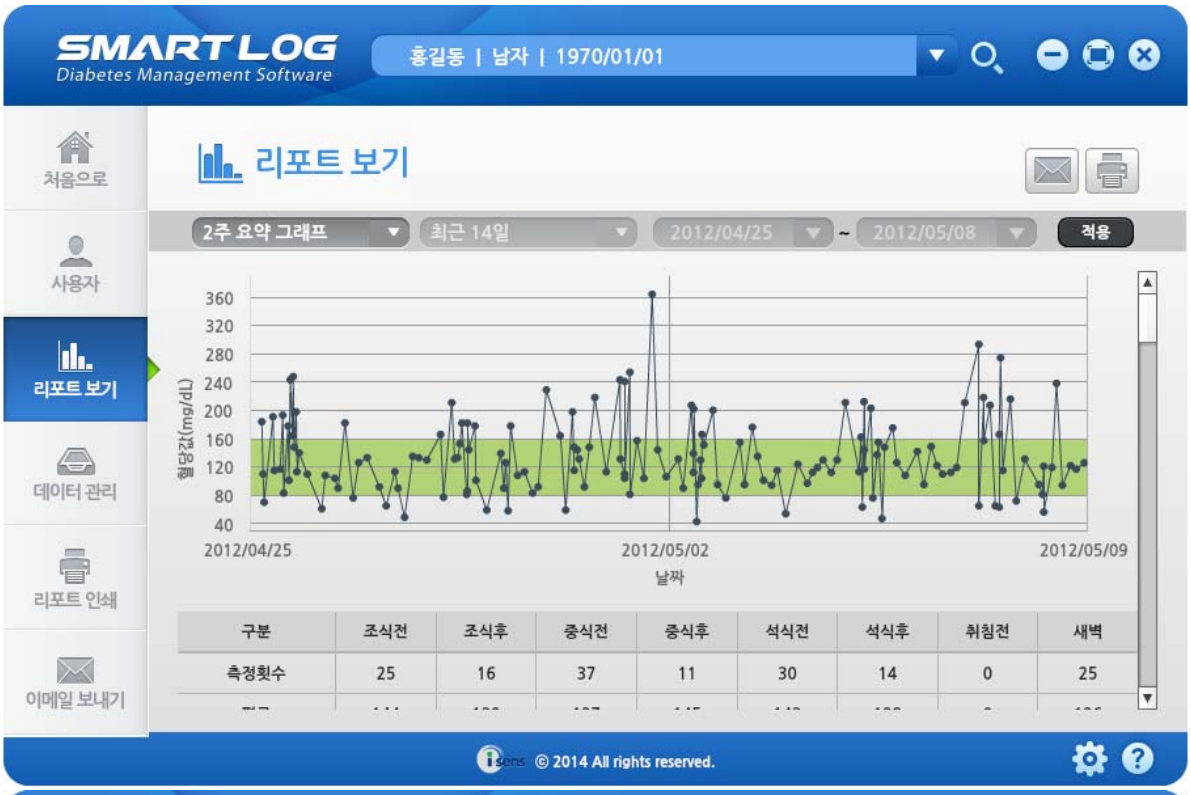
3.4.7 2 Weeks Summary Graph



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2 Weeks Summary Graph shows all measurements within recent 2 weeks into a form of Trend graph and Logbook (statistics, history view) report.

Refer to 3.4.1 Trend Graph, 3.4.6 Logbook for further details of each report.

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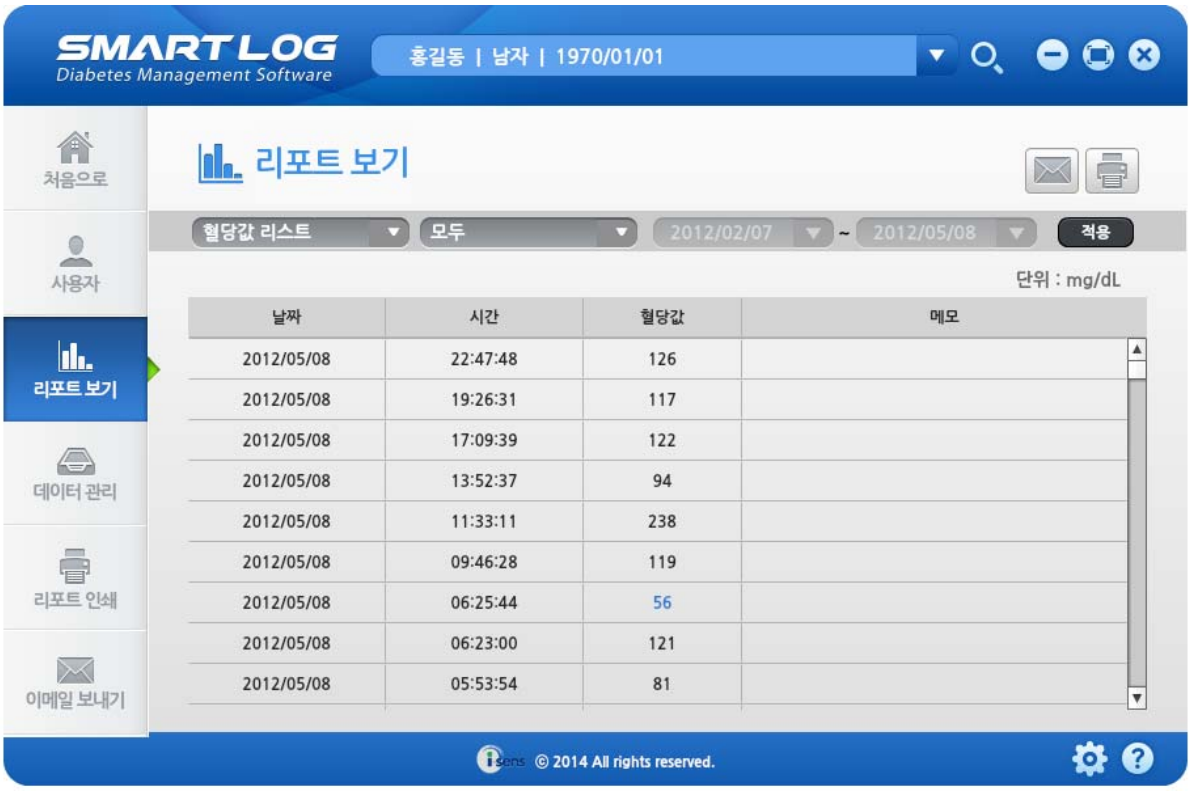
3.4.8 Measurement History Lists



Measurement History Lists shows all data including date, time, measurement and memo within a selected range.

What you need to know

Some reports show the percentage of glucose values in the Target Glucose Values. In some cases, the sum of the percentage might not be 100% because of rounding error or because the precision of SmartLog might not have been reflected.

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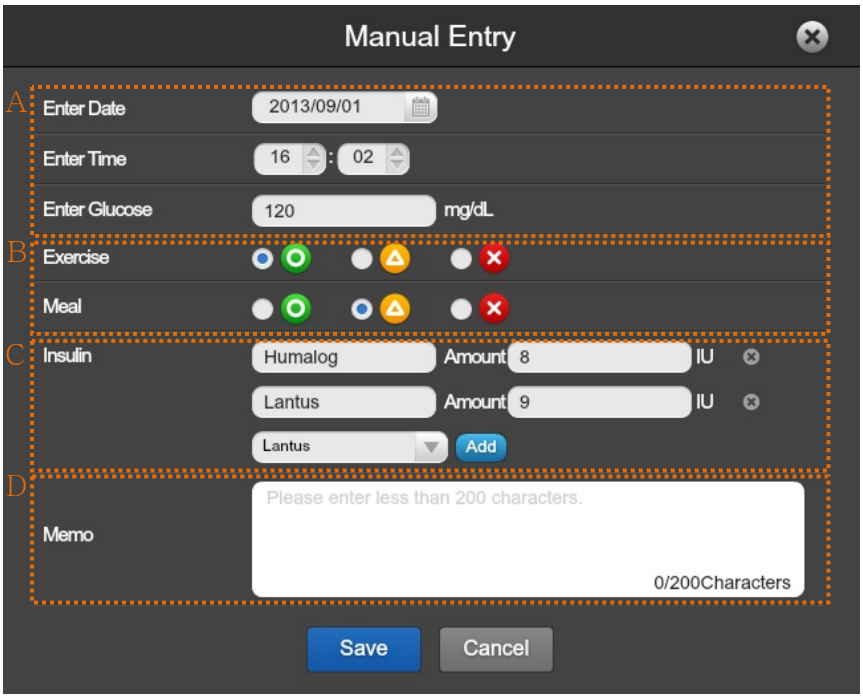
3.5 Manual Entry

Manual Entry allows to record glucose values manually.

Click the Manual Entry menu and the following screen will appear.



Displayed Item	Description
A. Glucose Data	It allows to edit or manually enter the measured date, time and glucose values.
B. Exercise/Diet Information	It allows to select Exercise and Diet information. You can select 1 among 3 icons showing Enough /Average /Low
C. Insulin	It allows to select the type of Insulin and enter the dosage. User - You can only select the Insulin which was added from the Health Management menu. (Refer to 3.2.2 Health Management to add/remove a type of Insulin)
D. Memo	It allows to edit or enter data in less than 200 words.

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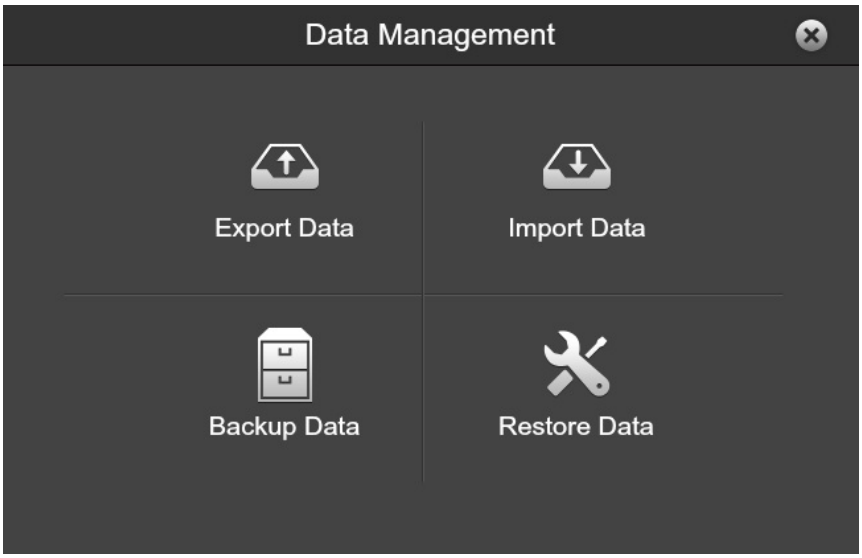
3.6 Data Management

It allows to Import/Export the data base from SmartLog in various file format. It also allows to backup/restore data base.

Click the Data Management and the following screen will appear.



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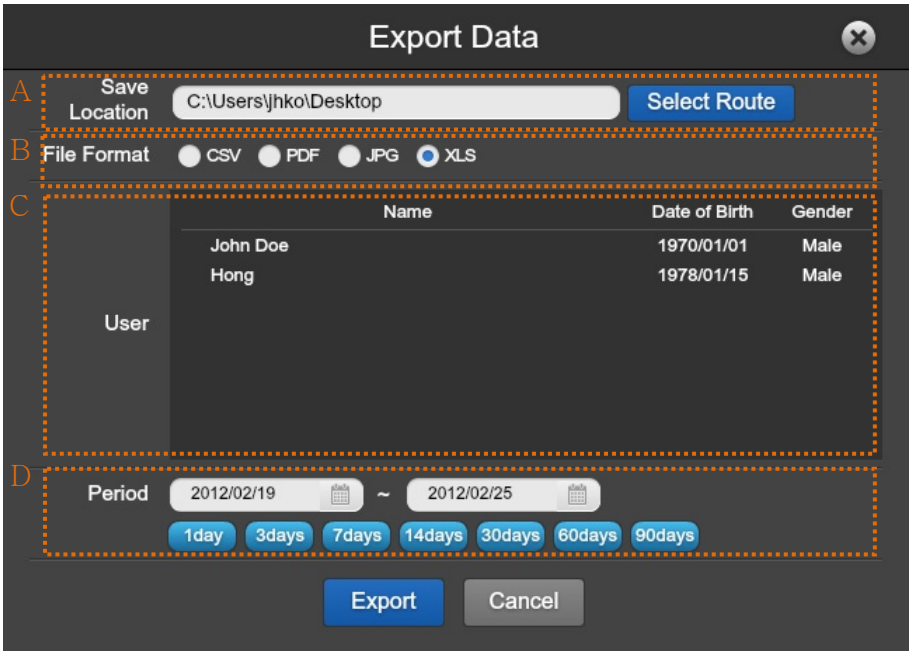
3.6.1 Export Data

Click the “Export Data” and the following screen will appear.



Displayed Item	Description
A. Save Location	Click the 'Choose Location' button select the location to save data.
B. File Format	Select which type of file format is to be used when export data.
C. User	It will display registered Name of User, Date of Birth, Gender by selecting the desired user to export data. You can only send data records of one user at one at a time.
D. Time Ranges	You can set the Time Ranges of the data. You can select from 1, 3, 7, 14, 30, 60 and 90 days, and click on the Calendar icon next to the dates to show the Calendar popup box to select the desired date.

Finish each settings and click the "Export" button to start exporting the data.

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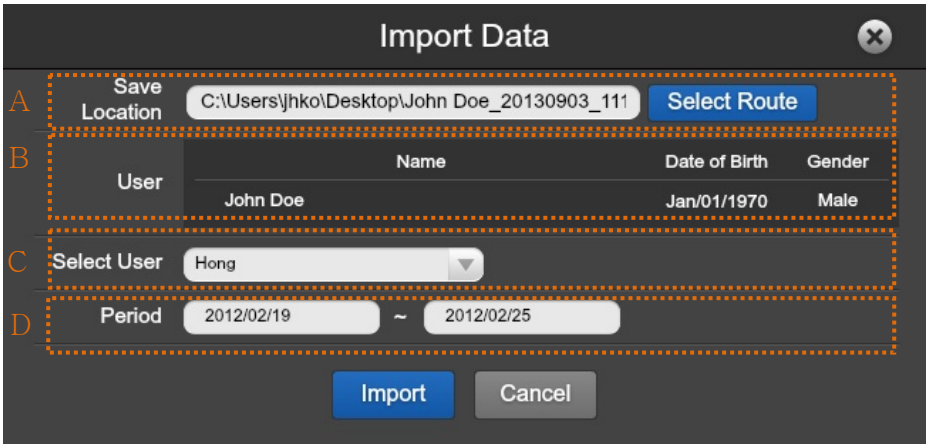
3.6.2 Import Data

Click the 'Import Data' and the following screen will appear.



Displayed Item	Description
A. Save Location	Click the 'Choose Location' button to find the saved data. You can only choose xls and csv files.
B. User	You can select the desired file to display the User name, Date of Birth, and Gender.
C. Select User	You can select the desired User data.
D. Time Ranges	It will automatically select the data day ranges.

Finish each settings and click the "Import" button to start importing the data.

Note

When you import the data of unregistered user, register a new user using ‘User - Account Settings’ menu before importing. You can add a new user by pressing ‘Add user account’ button.

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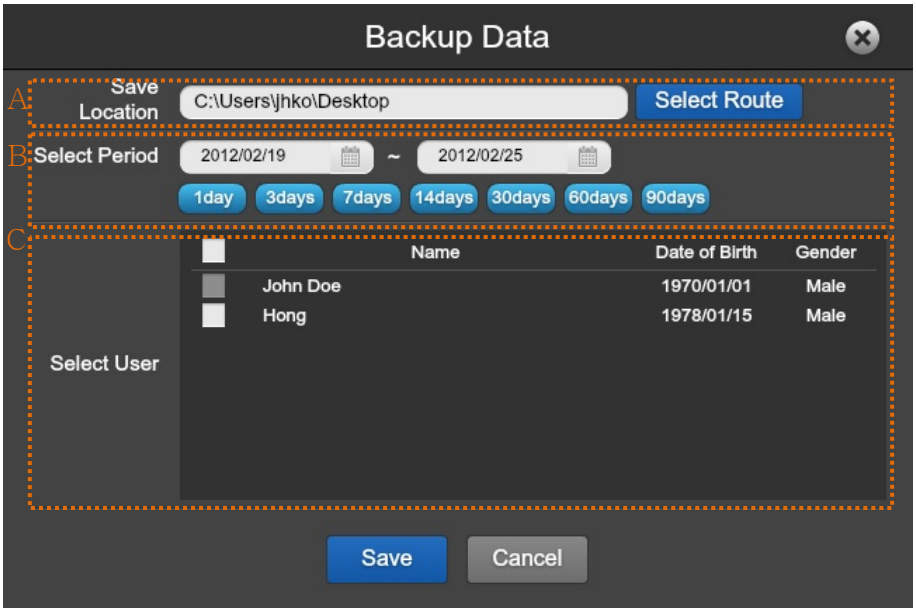
3.6.3 Backup Data

Click the 'Backup Data' and the following screen appear.



Displayed Item	Description
A. Save Location	Click the 'Choose Location' button to choose the location to backup the data.
B. Time Ranges	You can set the Time Ranges of the data backup. You can select from 1, 3, 7, 14, 30, 60 and 90 days, and click on the Calendar icon next to the dates to show the Calendar popup box to select the desired date.
C. User	It will display the User Name, Date of Birth, Gender and you can check the box next to the User Name. You can backup the Data information for more than one user at once.

Check each settings and click the "Save" button to backup the data. File format of backup data is sqlite.

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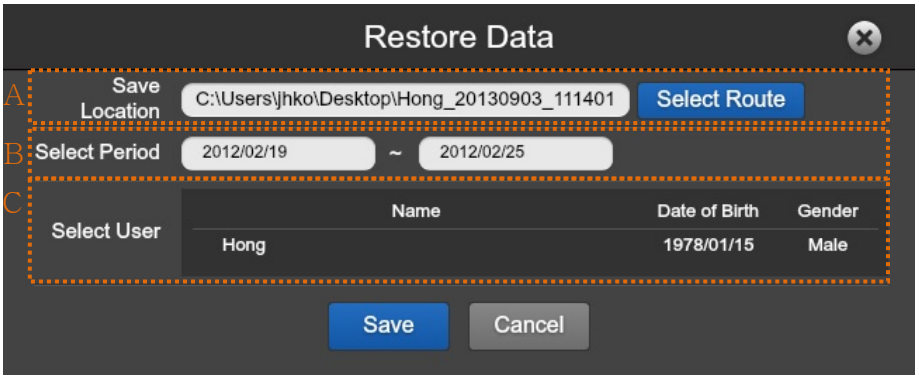
3.6.4 Restore Data

Click the 'Restore Data' and screen will show as below.



Displayed Item	Description
A. Save Location	Click the 'Choose Location' button to choose the location where the data file is saved.
B. Time Ranges	It will automatically select the data date range.
C. User	When you select a file to backup data, User Name, Date of Birth and Gender will be displayed.

Check each settings and click the "Save" button to restore the data.

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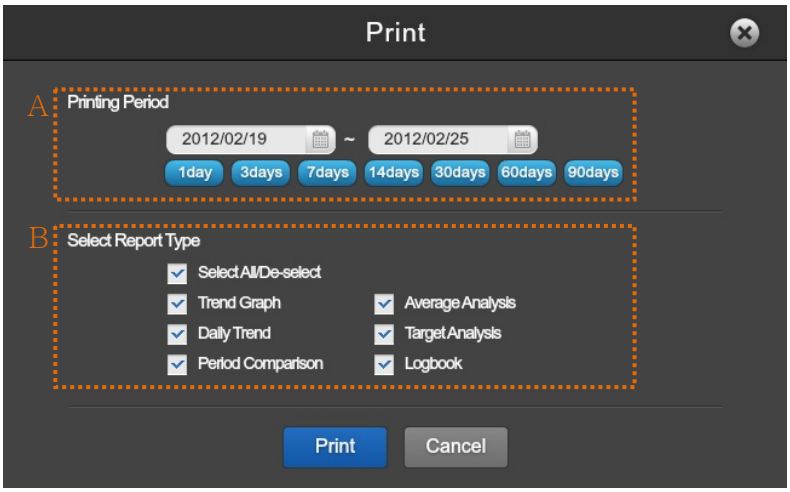
3.7 Print Report

You can print all types of the reports.

Click the 'Print Report' and the screen will show as below.



Displayed Item	Description
A. Time Ranges	You can set the day Ranges from 1, 3, 7, 14, 30, 60 to 90 days, and click on the Calendar icon next to the dates to customize the Time Ranges.
B. Type of Reports	Type of Reports are already set under Favorites on the 'User - User Profile' menu. You can check/uncheck the checkbox next to each type of reports to change the type of the reports to display.

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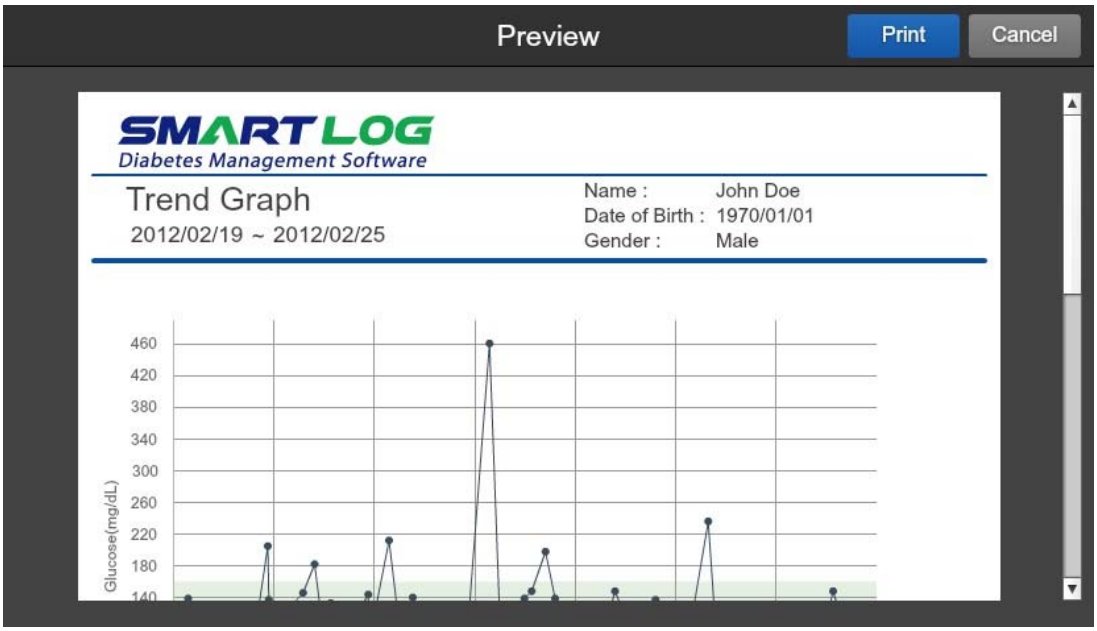
Check each settings and click the "Print" button and the Preview screen will appear as shown below.



Click the 'Print' button to print.

Type of Reports, User Name, Date of Birth, and Gender are printed on the top of the printed Report while User Name, Page Number and Printed Date is printed on the bottom of the Report page. Every Reports will include the 'Glucose Level Statistics' on the bottom of the page.

3.8 Send Email

You can send all the reports via email.

You can use this function if you have the email client program installed and have the internet connection.

When you start the 'Send Email', email client program installed in OS will run. Please refer to your email client program user's manual to learn how to send emails.

What you need to know

Once you start the 'Send Email', you will not be able to use SmartLog's other functions until the email has been sent or cancelled. All functions will run properly after the email has been sent or cancelled.

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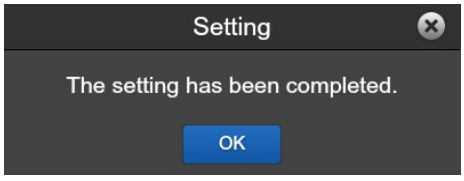
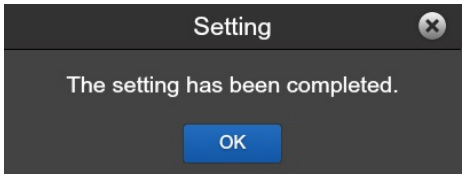
3.9 Setting

From the Setting menu, you can change the Date Format, Unit for Glucose, Target Value as well as the Time of the meter.

Click the 'Setting' and the screen will show as below.

Displayed Item	Description
A. Date Setting	Select the Date Format to be displayed. Dates will be displayed with only numbers. However, when using dd/mm/yyyy or mm/dd/yyyy, month will show in English. (ex: 01 - Jan) Click the first "Set' button to apply the selected Date Format. When the setting is completed, the screen will show as below. 
B. Glucose Unit	You can select the Glucose Unit. Click the first "Set' button to apply the prefered Date Format. When the setting is completed, the screen will show as below. 

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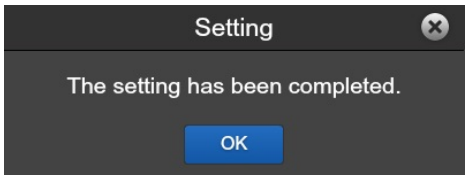
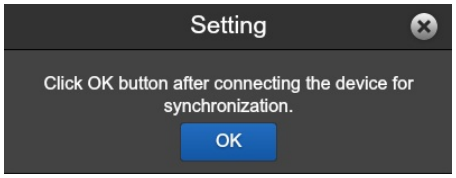
C. Target Value	You can set the Target value range in each pre/post-meal. Each maximum target values should be equal or higher than the minimum target values. Target values between pre-meal and post-meal may overlap. Set Target Values will be shown in the region in a lighter green color. Click the second "Set" button to apply the set target value. When the setting is completed, the screen will appear as below. 
D. Time Setting	You can set Date and Time of your meter. You can set it to the Date/Time of your PC and MAC or you can customize your Date/Time. Click the third "OK" button to set the Date/Time of the meter. (Time Setting function only applies to the meters that support Time Setting function.) Click the 'Set' button and screen will appear as below.  Click the "OK" button to continue Time Setting. When the setting is completed, the screen will show as below. If the meter is not connected, failed in Time Setting, or meter that does not support Time Setting function is connected, then the screen will show as below.

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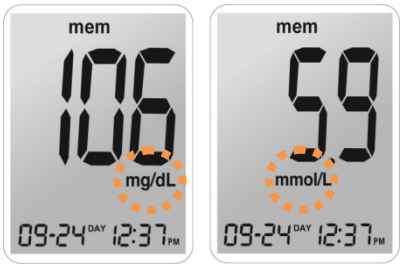
What you need to know

Important Information about Glucose Unit

- Standard Glucose Unit differs by countries and regions. For example, mg/dL is used in U.S.A while mmol/L is used in UK. mmol/L unit displays below decimal point while mg/dL unit does not.
- .
- Glucose Unit differs measurement information significantly by mg/dL or mmol/L.



Note

Major health organizations recommend the following target ranges in their clinical practice guidelines.

[A] American Diabetes Association "Standards of Medical Care in Diabetes – 2012." Diabetes Care. January 2012; 35(1):S11-S63.

❑ In mg/dL

Pre-meal targets* 70-99mg/dL
Post-meal targets* 100-139 mg/dL

❑ In mmol/L
Pre-meal targets* 3.9-5.5 mmol/L
Post-meal targets* 5.6-7.7 mmol/L

[B] American Association of Clinical Endocrinologists Guidelines for Intensive Diabetes Self-management
❑ In mg/dL
Pre-meal targets* 90-110 mg/dL
Post-meal targets* 90-140 mg/dL

❑ In mmol/L
Pre-meal targets* 5.0-6.1 mmol/L
Post-meal targets* 5.0-7.8 mmol/L

[C] Canadian Diabetes Association
Pre-meal targets* 4.0-7.0 mmol/L

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Post-meal targets* 5.0-11.8mmol/L

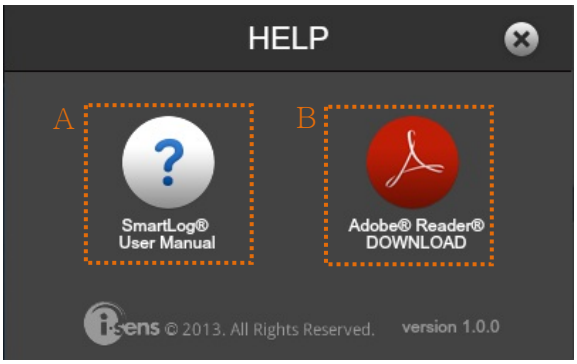
* These values are applicable to pre- post-meal targets for user-specific and diabetes-type specific targets for Types 1 and 2.

Important Information

- Always consult with your healthcare provider to set the Glucose Level Target.

3.10 Help

Click the 'Help' menu and the following screen below will appear as below.



Displayed Item	Description
A. User's Manual	Click the icon to see the User's Manual in pdf file format.
B. Download Adobe Reader	If Adobe Reader is not installed yet, click the icon to connect to Adobe Reader website for download.

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Chapter 4. Appendices

4.1 Appendix A Glossary

This appendix describes terms used in SmartLog User's Manual.

Oral Meds
Medication that is swallowed as a pill or liquid.

Hyperglycemic values
An abnormally high level of glucose in the blood.

Meal slot
A slot that allows you to manage the day into eight separate time ranges.

Dietary treatment
Supplementary medical treatment to control diet in order to cure diseases.

Exercise treatment
Supplementary medical treatment to cure diseases through physical exercise.

Insulin
A hormone secreted by the pancreas that stimulates the uptake of glucose by body cells

Median
Average of maximum and minimum glucose values.

Glucose average
The arithmetic mean calculated on a set of glucose data.

Standard Deviation
A measure of the spread of a set of glucose values from the mean value in the Period Comparison Graph.

Field
An area of a computer's memory or a program where data (number, name, and texts) can be entered, edited, or stored.

Blood glucose level
Measurement of glucose levels in the bloodstream

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4.2 Troubleshooting

The appendix will help you solve problems that you may have when using SmartLog. If it is still not solved, please contact the Customer Service.

Problem	Solution
SmartLog does not start.	1. SmartLog Diabetes Management Software may already be running. If this is the case, click the SmartLog Diabetes Management Software icon. 2. Close all running programs and re-open them. 3. Restart your computer and then run the program. 4. If the above do not work, uninstall and reinstall the program. (When the program is uninstalled, all saved data will be lost. Before doing this, please contact Customer Service.)
SmartLog is unable to communicate with meter.	1. Close SmartLog and and re-open it. 2. Check whether the cable is properly connected. 3. Another program other than SmartLog may be using the communication port. Close all programs and run SmartLog. 4. Check the battery of the meter. If the battery symbol blinks on the meter, change the battery. 5. Reboot your PC and try again.
You cannot print from SmartLog.	1. Check whether the printer is turned on. 2. If using a network printer, make sure it is ONLINE. 3. Make sure the printer cable is properly connected.
Manually input data is not displayed.	1. Make sure the selected date and the date of the input data match. If not, change the date.

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4.3 Technical Support

If you have any difficulty using SmartLog, please refer to SmartLog User's Manual. For further technical support, please contact i-SENS customer service or visit our website www.i-sens.com.

■ i-SENS Headquarter

Country	**Korea**
Department	**Customer Service**
Phone	**080-910-0600**
Fax	**080-910-0688**
Hours	**Mon ~ Fri, 9AM ~ 6PM**
Email	**caresens@i-sens.com**
Product Website	**www.caresens.co.kr**

■ Others

If you need help, please contact i-SENS representatives and visit www.i-sens.com for more detailed information.

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